

SWEATTABSORBING POLYESTER FIBER

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Inventor: SHIZUKI TATSUHIKO; NANRI SHIYOUSUKE; OONO TERUO
Applicant: TOYO BOSEKI
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 - european:
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Abstract of JP55107510

PURPOSE: To obtain fibers having improved water absorption itself and pilling resistance after alkali treatment, with a specific cross-sectional shape, by incorporating an independent phase of a polyoxyalkylene glycol (derivative) into a specific modified polyester. **CONSTITUTION:** A polyoxyalkylene glycol (derivative) as a substantially independent phase is incorporated into a modified polyester fibers consisting of ethylene terephthalate repeating units mainly, and 0.5-8wt% of a polyoxyalkylene glycol (derivative) to give hollow or modified cross section fibers. The hollow fibers have a degree of hollowness of 5-60%, and modified cross-section fibers have a modification ratio $[S = \frac{\text{the length (cm) of the contours of the fiber cross-sections}}{\text{the cross-sectional area (cm}^2\text{) of fibers}}] \geq 5000/d^{1/2}$ (d is the denier per fiber). The water and sweat absorption, and light-resistance can be further improved by treatment with an alkali.

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NANRI SHOSUKE;
ONO TERUO;**Assignee: **TOYOBO CO LTD**
[News, Profiles, Stocks and More about this company](#)Published / Filed: **1980-08-18 / 1979-02-05**Application Number: **JP1979000012524**IPC Code: **IPC-7: D01F 6/62;**Priority Number: **1979-02-05 JP1979000012524**Abstract: **PURPOSE:** To obtain fibers having improved water absorption itself and pilling resistance after alkali treatment, with a specific cross-sectional shape, by incorporating an independent phase of a polyoxyalkylene glycol (derivative) into a specific modified polyester.**CONSTITUTION:** A polyoxyalkylene glycol (derivative) as a substantially independent phase is incorporated into a modified polyester fibers consisting of ethylene terephthalate repeating units mainly, and 0.5W8wt% of a polyoxyalkylene glycol (derivative) to give hollow or modified cross section fibers. The hollow fibers have a degree of hollowness of 5W60%, and modified cross-section fibers have a modification ratio $[S = \frac{\text{the length(cm) of the contours of the fiber cross-sections}}{\text{the cross-sectional area(cm}^2\text{) of fibers}}] \geq 5000/d^{1/2}$ (d is the denier per fiber). The water and sweat absorption, and light-resistance can be further improved by treatment with an alkali.**COPYRIGHT:** (C)1980,JPO&JapioFamily: **None**Other Abstract Info: **CHEMABS 094(02)004889K**[Nominate this for the Gallery...](#)